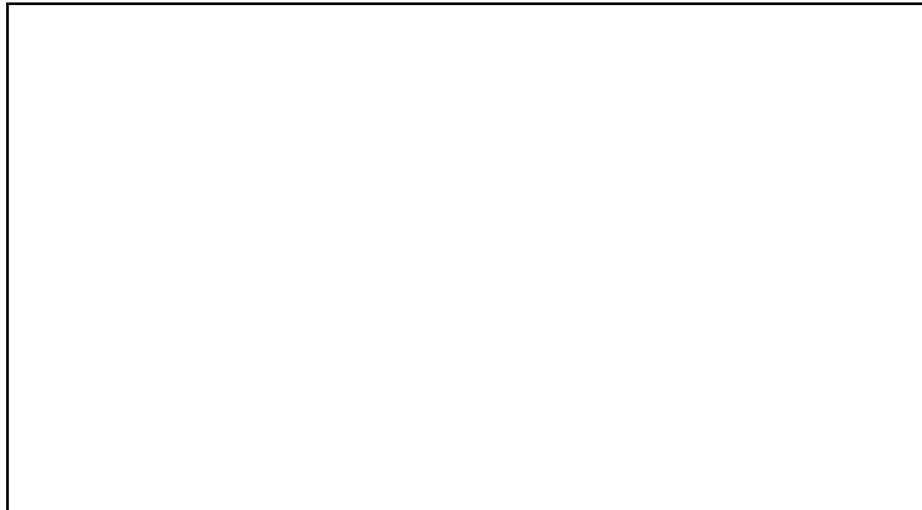




50HX-1SB

**50HX024, 030, 036, 042, 048 & 060
HIGH-EFFICIENCY
COMBINATION HEAT PUMP UNITS
W/OPTIONAL ELECTRIC HEAT**

- PERFORMANCE DATA**
- CERTIFIED DIMENSION PRINT**
- CERTIFIED ROOF CURB
DIMENSION PRINT**



Date:	Supersedes:	50HX024, 030, 036, 042, 048 & 060 HIGH-EFFICIENCY COMBINATION HEAT PUMP UNITS W/OPTIONAL ELECTRIC HEAT	50HX	Rev.:
JOB DATA:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	



ARI 210



ARI 270



ISO 9002 #A2260



C

DESCRIPTION

50HX units are high-efficiency, one-piece heat pump units with optional electric heat, pre-wired and pre-charged at the factory.

50HX units are convertible discharge units that can be used for either horizontal or down discharge installations.

FEATURES

Standard one-year warranty.

Ten-year Extended Protection Plan for the compressor.

Units are "Rated in accordance with ARI Standard No. 270 and 210/240."

Standard unit as factory assembled is design certified and listed by UL and UL, Canada.

Compressor Time Guard® device is standard.

Low temperature cooling operation standard to 40 F (4 C).

Hermetic compressor with internal linebreak and overload protection, self lubricating. Scroll compressors are standard.

Indoor and outdoor coils constructed of aluminum fins mechanically bonded to seamless copper tubes.

Foil-faced cleanable insulation.

Sloped non-corrosive condensate drain pan.

Up to 12.0 SEER cooling efficiency.

Loss-of-charge switch is standard.

Alternate electrical connections on opposite sides of unit.

Disconnect in accordance with NEC, must be field-supplied and installed.

Multi-speed, direct drive indoor fan motor.

Weatherized cabinets. Heavy duty phosphated zinc-coated pre-painted steel. Capable of withstanding 500-hour salt spray.

24-volt control circuit.

State of the art defrost control board which may be easily configured for defrost cycles of 30, 50, or 90 minutes.

PERFORMANCE DATA

Operating Weight _____ lb (unit); _____ lb (curb)

COOLING

Net Total Capacity _____ Btuh

Net Sensible Capacity _____ Btuh

Compressor Power Input _____ kW @ _____ °F Outdoor-Air Temperature

Indoor Entering Air db _____ °F wb _____ °F

SEER/EER _____

CFM _____ Ext. Static Pressure _____ in.wg

Indoor Fan Motor _____ Hp _____ Rpm _____ Bhp

HEATING

Power Input to Unit _____ Btuh

Integrated Capacity _____ Btuh

Indoor Operating Temp _____ °F db

Outdoor-Air Temp _____ °F (Winter Design)

Electric Capacity Required _____ Btuh

Rating @ 70° R.H. _____ kW Heater Installed

_____ Heat/Cool Ratio

COP/HSPF _____ Hi _____ Lo

ELECTRICAL DATA

Power Supply to Unit _____ Volts _____ Phase _____ Hz.

Minimum Circuit Amps _____ Maximum Overcurrent Protection _____

ACCESSORIES AND OPTIONS

FACTORY-INSTALLED OPTIONS

- ☐ Commercial Grade Base Rail
- ☐ Dedicated Downshot/Base Rail

FIELD-INSTALLED ACCESSORIES

- ☐ 30% Open Manual Fresh Air Damper
- ☐ Roof Curb:
 - ☐ 8" Height
 - ☐ 11" Height
 - ☐ 14" Height
- ☐ One-in. Filter Rack

FIELD-INSTALLED ACCESSORIES (cont)

- ☐ Electronic Programmable Thermostat
- ☐ Thermostat and Subbase
- ☐ 0° Low Ambient
- ☐ Controls Upgrade Kit (High- and Low-Pressure Switch)
- ☐ External Condensate Drain
- ☐ Electric Heat Package — 5-20 kW
- ☐ Outdoor Thermostat to Stage Heaters

CERTIFIED DIMENSION PRINT



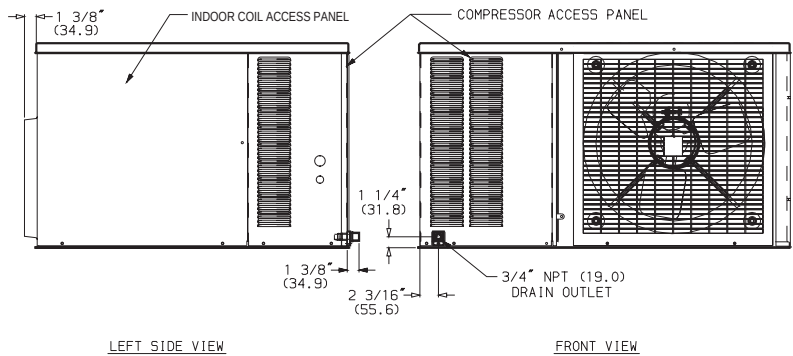
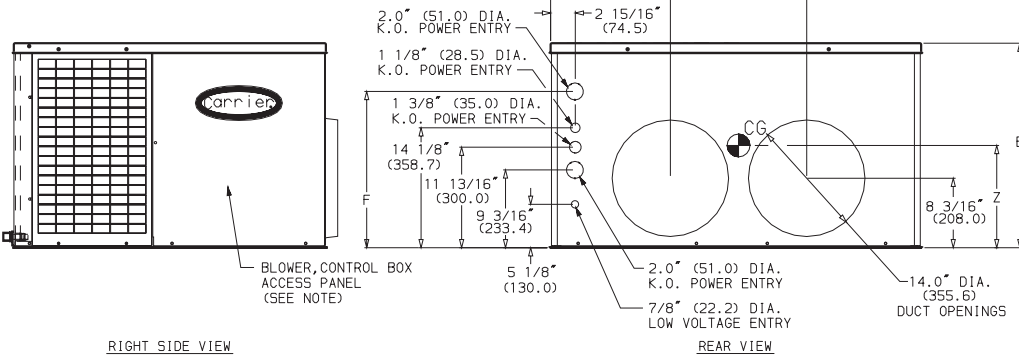
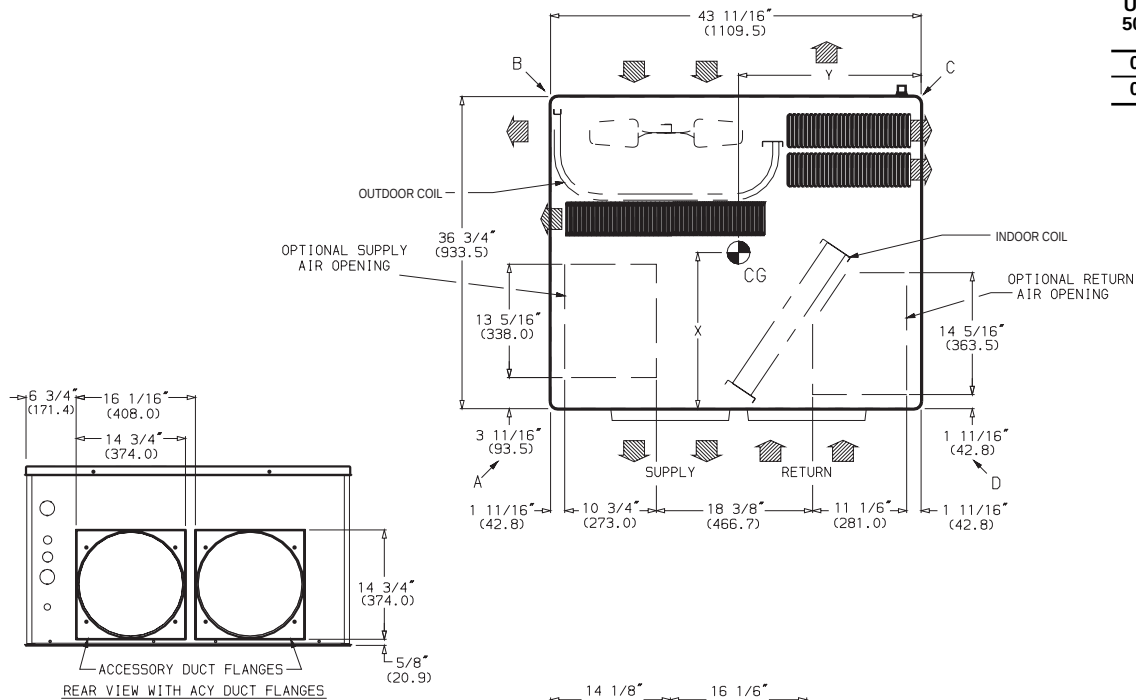
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P O BOX 4808
SYRACUSE N. Y.
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NOTE: Clearances must be maintained to prevent re-circulation of air from outdoor fan discharge.



UNIT 50HX	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT (lb/kg)			
		lb	kg	A	B	C	D
024	208/230-1-60	257	117	57/26	69/31	75/34	56/25
030	208/230-1-60, 208/230-3-60	288	131	56/25	87/40	74/34	71/32

UNIT 50HX	UNIT HEIGHT (in./mm)	DIMENSION (in./mm)	CENTER OF GRAVITY (in./mm)		
	E	F	X	Y	Z
024	28.12/714.2	22.18/563.4	20.43/519	21.27/540	11.25/286
030	28.12/714.2	22.18/563.4	20.38/518	21.54/547	11.25/286

REQ'D CLEARANCES FOR SERVICING — in. (mm)

Indoor Coil Access Side 30 (762.0)
Control Box Access Side 30 (762.0)
(Except for NEC requirements)

Unit Top 36 (914.4)
Side Opposite Ducts 30 (762.0)

REQ'D CLEARANCES TO COMBUSTIBLE MAT'L — in. (mm)

Unit Top 0
Duct Side of Unit 0
Side Opposite Ducts 0
Bottom of Unit 0
Vertical Discharge, First 12 in. (304.8) of Supply Duct. 1 (25.4)

NEC (National Electrical Code) REQ'D CLEARANCES — in. (mm)

Between Units, Control Box Side 42 (1066.8)
Unit and Ungrounded Surfaces, Control Box Side 36 (914.4)
Unit and Block or Concrete Walls and Other
Grounded Surfaces, Control Box Side 42 (1066.8)

DATE
02/14/97

SUPPERS
08/01/94

PACKAGED HEAT PUMPS

50HX024-030

50HX500115

REV
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DATE

02/14/97

SHEET

08/01/94

50HX024-030
PACKAGED HEAT PUMPS

50HX500118

REV

UNIT 50HX	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT (lb/kg)			
		lb	kg	A	B	C	D
024	208/230-1-60	277	126	62/28	74/34	80/36	61/28
030	208/230-1-60, 208/230-3-60	308	140	61/28	92/42	79/36	76/35

UNIT 50HX	UNIT HEIGHT (in./mm)	DIMENSION (in./mm)	CENTER OF GRAVITY (in./mm)		
	E	F	X	Y	Z
024	31.43/798.2	25.50/647.7	20.27/515	21.30/541	13.83/351
030	31.43/798.2	25.50/647.7	20.24/514	21.55/547	13.83/351

REQ'D CLEARANCES FOR SERVICING — in. (mm)

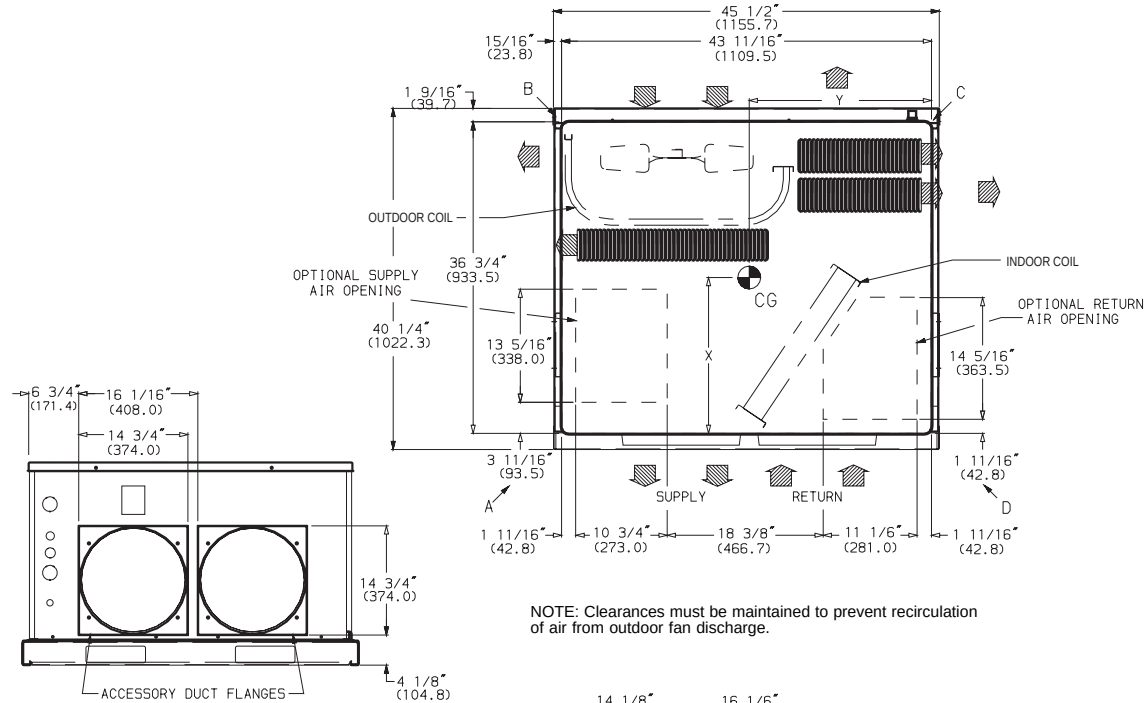
Indoor Coil Access Side	30 (762.0)
Control Box Access Side	30 (762.0)
(Except for NEC requirements)	
Unit Top	36 (914.4)
Side Opposite Ducts	30 (762.0)

REQ'D CLEARANCES TO COMBUSTIBLE MAT'L — in. (mm)

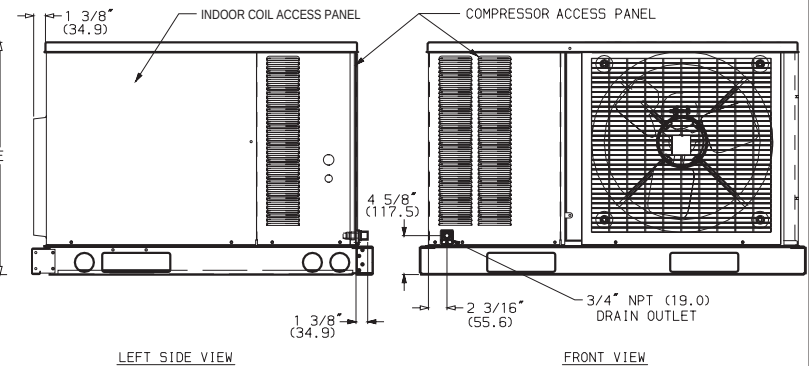
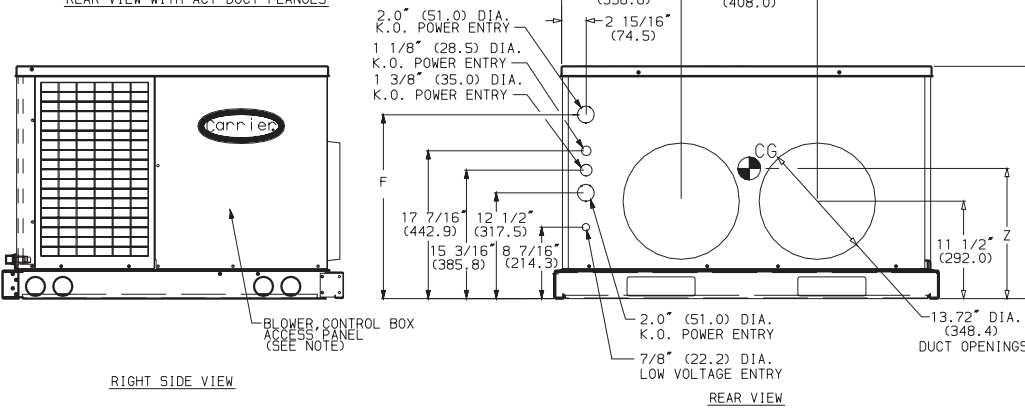
Unit Top	0
Duct Side of Unit	0
Side Opposite Ducts	0
Bottom of Unit	0
Vertical Discharge, First 12 in. (304.8) of Supply Duct	1 (25.4)

NEC (National Electrical Code) REQ'D CLEARANCES — in. (mm)

Between Units, Control Box Side	42 (1066.8)
Unit and Ungrounded Surfaces, Control Box Side	36 (914.4)
Unit and Block or Concrete Walls and Other Grounded Surfaces, Control Box Side	42 (1066.8)



NOTE: Clearances must be maintained to prevent recirculation of air from outdoor fan discharge.



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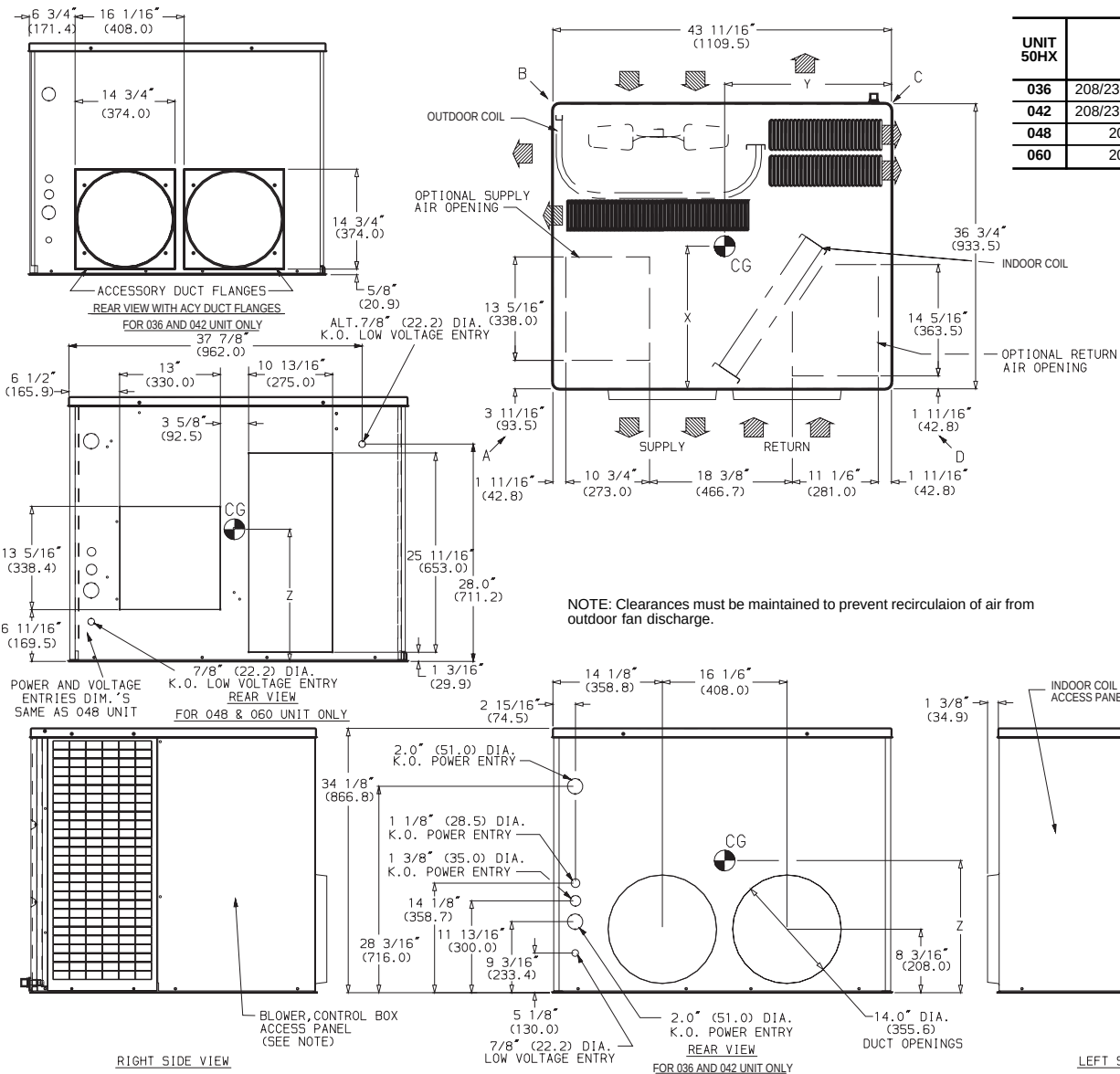
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UNIT 50HX	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT (lb/kg)			
		lb	kg	A	B	C	D
036	208/230-1-60, 208/230-3-60, 460-3-60	316	144	46/21	103/47	81/37	86/39
042	208/230-1-60, 208/230-3-60, 460-3-60	316	144	46/21	103/47	81/37	86/39
048	208/230-1-60, 208/230-3-60	359	163	89/40	81/37	113/51	76/35
060	208/230-1-60, 208/230-3-60	373	170	92/42	85/39	116/53	80/36

UNIT 50HX	CENTER OF GRAVITY (in./mm)		
	X	Y	Z
036	21.23/539	20.46/520	13.65/347
042	21.23/539	20.46/520	13.65/347
048	19.70/500	20.54/522	15.00/381
060	19.65/499	20.59/523	15.00/381

- REQ'D CLEARANCES FOR SERVICING — in. (mm)
- Indoor Coil Access Side 30 (762.0)
- Control Box Access Side 30 (762.0)
- (Except for NEC requirements)
- Unit Top 36 (914.4)
- Side Opposite Ducts 30 (762.0)
- REQ'D CLEARANCES TO COMBUSTIBLE MAT'L — in. (mm)
- Unit Top 0
- Duct Side of Unit 0
- Side Opposite Ducts 0
- Bottom of Unit 0
- Vertical Discharge, First 12 in. (304.8) of Supply Duct 1 (25.4)
- NEC (National Electrical Code) REQ'D CLEARANCES — in. (mm)
- Between Units, Control Box Side 42 (1066.8)
- Unit and Ungrounded Surfaces, Control Box Side 36 (914.4)
- Unit and Block or Concrete Walls and Other Grounded
Surfaces, Control Box Side 42 (1066.8)



DATE
9/28/94

SURFACES
8/2/94

50HX036-060
PACKAGED HEAT PUMP

50HX500120

REV
A

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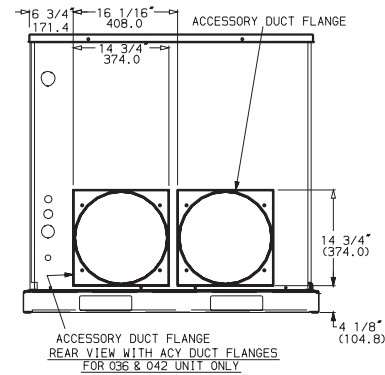


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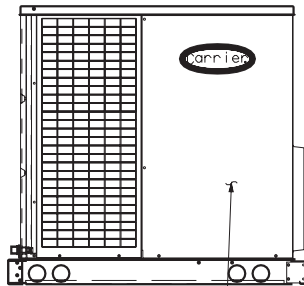


REQ'D CLEARANCES TO COMBUSTIBLE MAT'L — in. (mm)

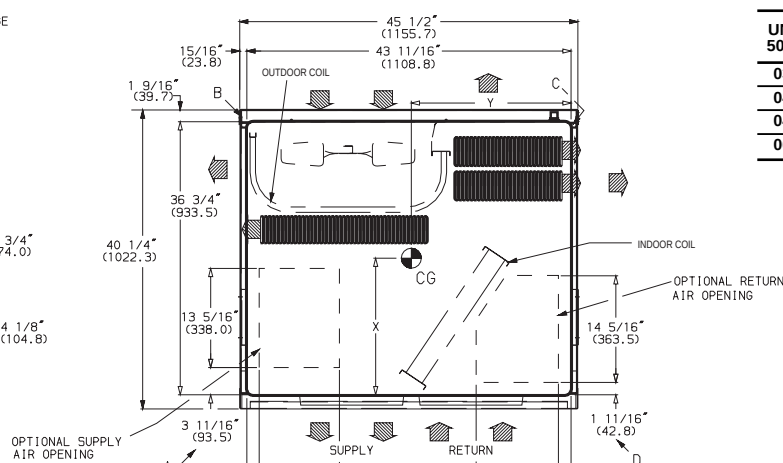
Unit Top	0
Duct Side of Unit	0
Side Opposite Ducts	0
Bottom of Unit	0
Vertical Discharge, First 12 in. (304.8) of Supply Duct	1 (25.4)

NEC (National Electrical Code) REQ'D CLEARANCES — in. (mm)

Between Units, Control Box Side	42 (1066.8)
Unit and Ungrounded Surfaces, Control Box Side	36 (914.4)
Unit and Block or Concrete Walls and Other Grounded Surfaces, Control Box Side	42 (1066.8)



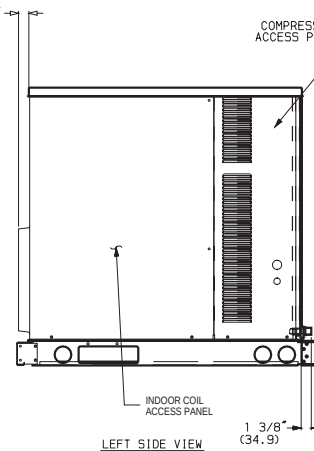
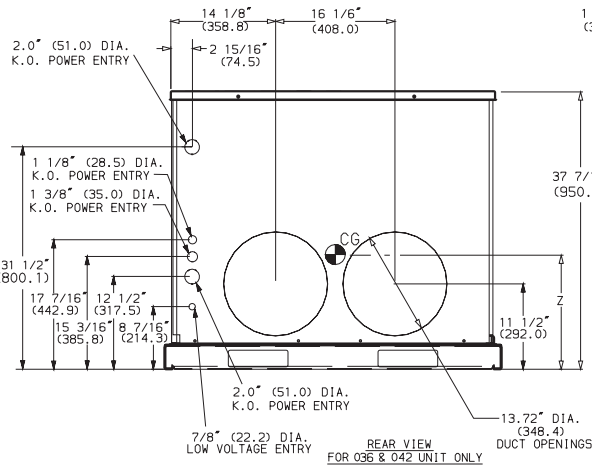
RIGHT SIDE VIEW



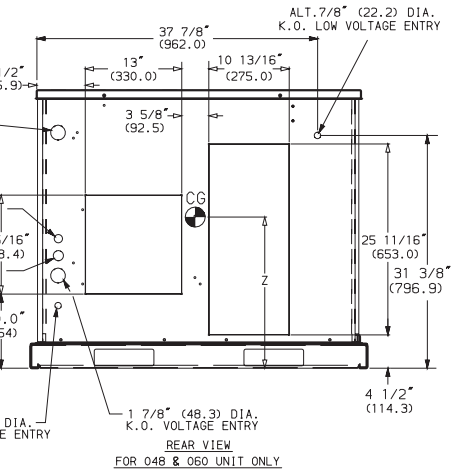
REQ'D CLEARANCES FOR SERVICING — in. (mm)

Indoor Coil Access Side	30 (762.0)
Control Box Access Side	30 (762.0)
(Except for NEC requirements)	
Unit Top	36 (914.4)
Side Opposite Ducts	30 (762.0)

UNIT 50HX	CENTER OF GRAVITY (in./mm)		
	X	Y	Z
036	21.05/535.0	20.53/521.0	16.47/418.0
042	21.05/535.0	20.53/521.0	16.47/418.0
048	19.62/498.3	20.61/523.5	17.31/439.7
060	19.58/497.3	20.64/524.3	17.31/439.7



LEFT SIDE VIEW



FRONT VIEW

UNIT 50HX	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT (lb/kg)			
		lb	kg	A	B	C	D
036	208/230-1-60, 208/230-3-60, 460-3-60	336	153	51/23	108/49	86/39	91/41
042	208/230-1-60, 208/230-3-60, 460-3-60	336	153	51/23	108/49	86/39	91/41
048	208/230-1-60, 208/230-3-60	379	172	94/43	86/39	118/54	81/37
060	208/230-1-60, 208/230-3-60	393	179	97/44	90/41	121/55	85/39

NOTE: Clearances must be maintained to prevent recirculation of air from outdoor fan discharge.

DATE

9/28/94

SUBMITTER

8/1/94

50HX036-50HX060
PACKAGED HEAT PUMP

50HXS00122

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CERTIFIED ROOF CURB DIMENSION PRINT



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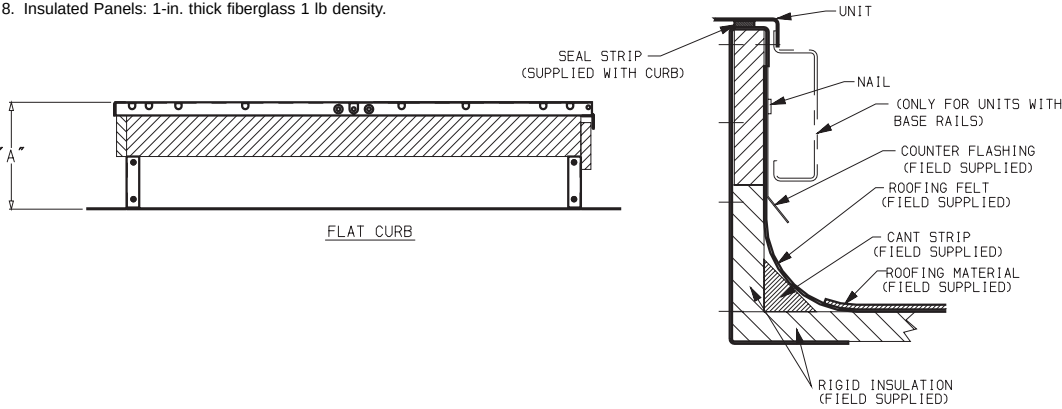
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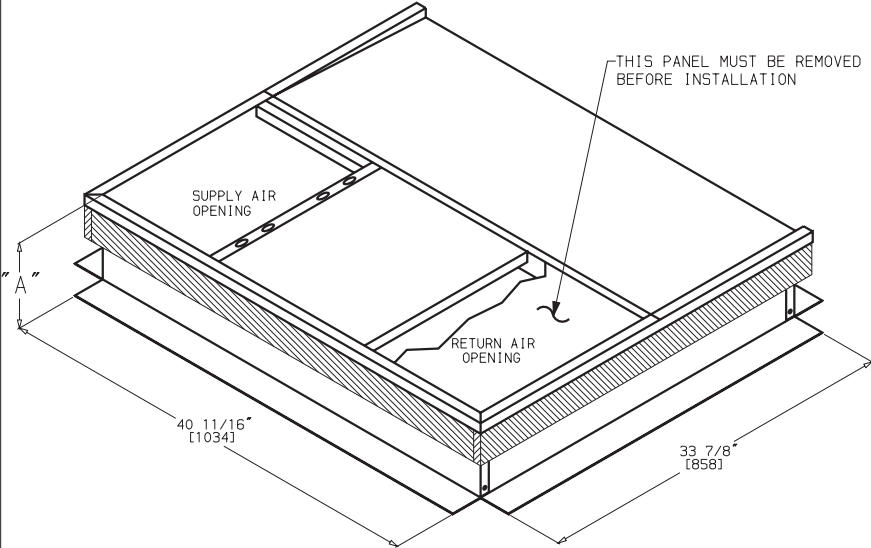
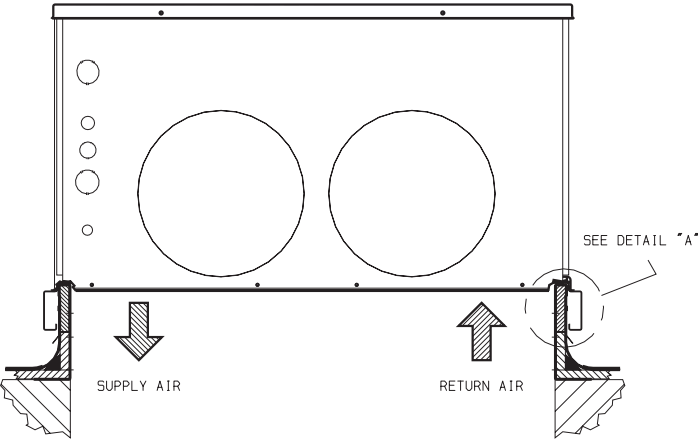
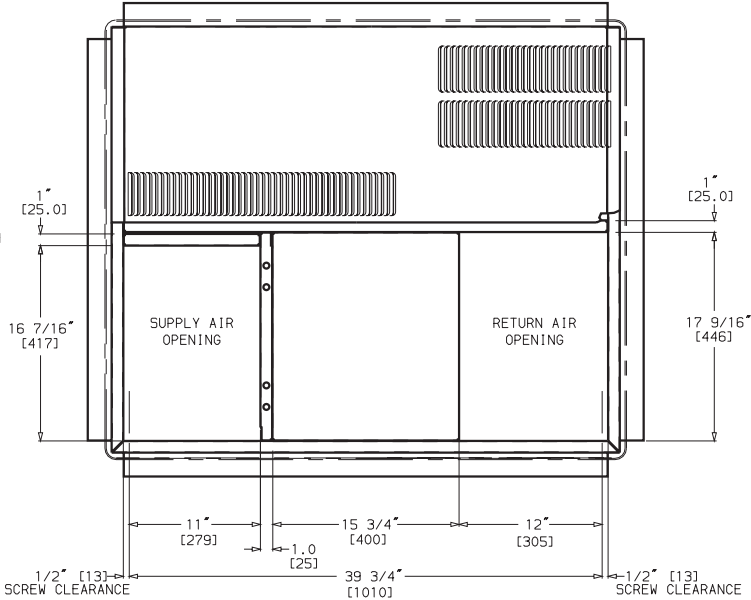
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- NOTES:
1. Roof curb must be set up for unit being installed.
 2. Seal strip must be applied as required for unit being installed.
 3. Dimensions in [] are in millimeters.
 4. Roof curb is made of 16 gage steel.
 5. Attach ductwork to curb (flanges of duct rest on curb).
 6. Service clearance 4 ft on each side.
 7.  Direction of airflow.
 8. Insulated Panels: 1-in. thick fiberglass 1 lb density.

PART NUMBER	CURB	"A" (in./mm)
CPRFCURB001A00	FLAT	8 [203]
CPRFCURB002A00		11 [279]
CPRFCURB003A00		14 [356]



DETAIL "A"



DATE
04/18/94

SUBMIT
01/26/93

50HX 024060 ROOFCURB

50SS500552

1

B

